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Server Solutions

Tiger K8SSA

S3870

AMD 64 Opteron

Dual AMD Opteron™ Platform built by ServerWorks chipset HT-1000 with PCI-X slots

- AMD Opteron™ 200 series CPU support
- ServerWorks BCM5785 (HT-1000) chipset
- DDR400/333/266 Register memory supported
- One(1) PCI-X 64-bit 133/100MHz slot & four(4) 32-bit/33MHz PCI v2.3 slots
- Two Intel i82541PI GbE LAN controllers
- (1) PCI-X TYAN TARO™ SO-DIMM slot supports U320 SCSI or SAS/SATA II/SATA

(Specifications are subject to change without notice. Items pictured may only be representative.)

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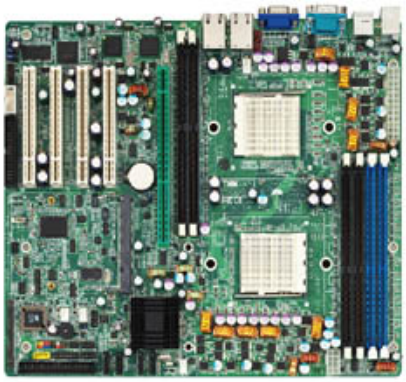
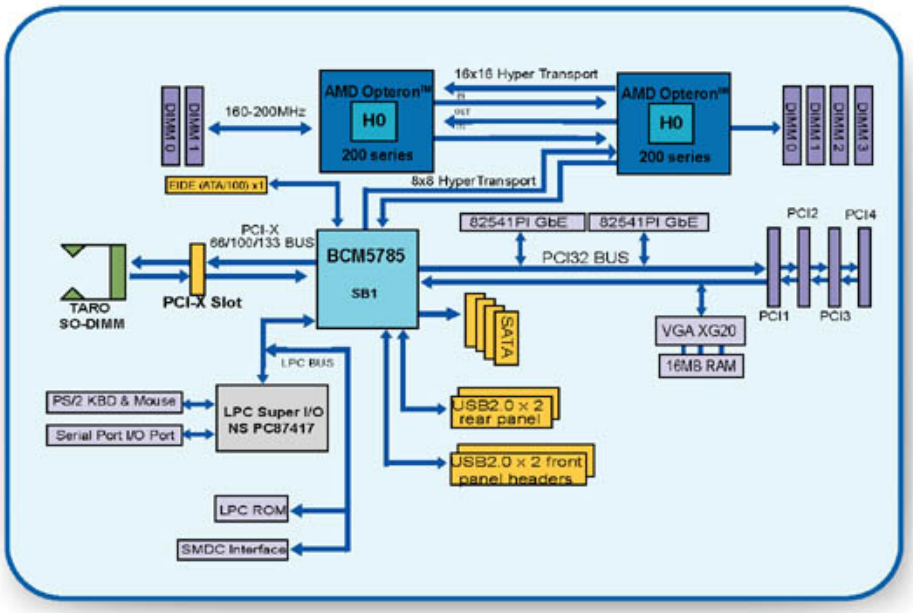


▲TOP View

Block Diagram



S P E C I F I C A T I O N S

Processors
- Dual mPGA 940-pin ZIF sockets
- Supports up to two AMD OpteronTM 200 Series processors (including dual core processors)
- Integrated 128-bit DDR Memory Controller

Chipset
- ServerWorks BCM5785 (HT-1000) core-logic
- NS PC87417 Super I/O

Memory
- 128-bit dual channel memory bus
- Six 184-pin DDR DIMM sockets (four from CPU0 and two from CPU1)
- Supports PC2100, PC2700 & PC3200 DDR
- Registered, ECC module supported
- Single/Dual/Quad-Rank memory supported

Expansion Slots
- One PCI-X 64-bit 100/133MHz slots
- Four 32-bit/33MHz PCI v2.3 slots
- One Tyan TARO™ SO-DIMM socket
- Total of six usable slots

System Management
- Two(2) SMSC EMC6D103 hardware monitoring IC
- Six (6) fan headers; four (4) of them with 3+1-pin header and with tachometer monitoring and smart FAN control (PWM).
- Temperature and voltage monitoring
- Watchdog timer support

Integrated I/O Interfaces
- One floppy connector
- One IDE connector
- Four SATA ports
- Four USB 2.0 ports (2 at rear, 2 via cable)
- Two COM ports (1 at rear, 1 via cable)
- Tyan 2 x 9 front-panel pin header
- Tyan 2 x 6 pin header for front panel LAN LED and ID LED/Switch
- 2 x 25 connector for optional Tyan IPMI SMDC

Integrated ATA-100
- One ATA Channel for up to two ATA-100 devices

Back Panel I/O Ports
- Stacked PS/2 Mouse & Keyboard ports
- Stacked 2 USB ports
- One 9-pin COM port
- One 15-pin VGA port
- Two side-by-side RJ-45 ports

Integrated Serial ATA controller
- Supports four SATA ports at 1.5Gb/s with NCQ
- RAID 0/1/10 supported

Integrated LAN controllers
- Two Intel i82541PI GbE LAN controllers
  - Operating on PCI 32-bit/33MHz bus
  - With ASF 2.0/WfM/Teaming supports

Integrated Video Controller
- XGI Volari Z7 (XG20)
- 16MB frame buffer memory

Optional Modules
- M3291, IPMI 2.0 Remote System Mgmt card
  - Renesas H8S2167 BMC controller
  - BT, KCS, Logging support
  - IPMI-over-LAN
  - Remote power on/off and reset
- M7901/M7902, Ultra 320 SCSI TARO™ card
  - Adaptec AIC-7901/7902 single/dual-channel Ultra320 SCSI controller
  - Adaptec HostRAID 0, 1, 10 supported
- M9000 SAS/SATA II TARO™ card
  - Adaptec AIC-9405/9410 SAS controller
  - Supports up to 4-port (M9000-5) and 8-port (M9000-10) SAS & SATA running at 3.0Gb/s
  - Adaptec HostRAID 0, 1 & 10 supported

BIOS
- AMI BIOS on 8Mbit LPC Flash ROM
- Serial Console Redirect
- USB boot supported
- ACPI supported
- PnP, DMI2.0, WfM2.0 power Management

Form Factor
- ATX footprint
- 12" x 10.2" (304.8mm x 259.1mm)

Power
- Onboard dual 4-phase VRM
- EPS12V/SSI v3.51 (24 + 8) power connectors

Regulatory
- FCC Class B (Declaration of Conformity)
- CE (Declaration of Conformity)
- BSMI (optional)

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